



Objective

Use Video Bioinfomatics to facilitate high throughput analysis of mutants in order to place them in functional categories. Specifically, I would like to determine how proteins interact in heterotrimeric G protein signaling pathways.



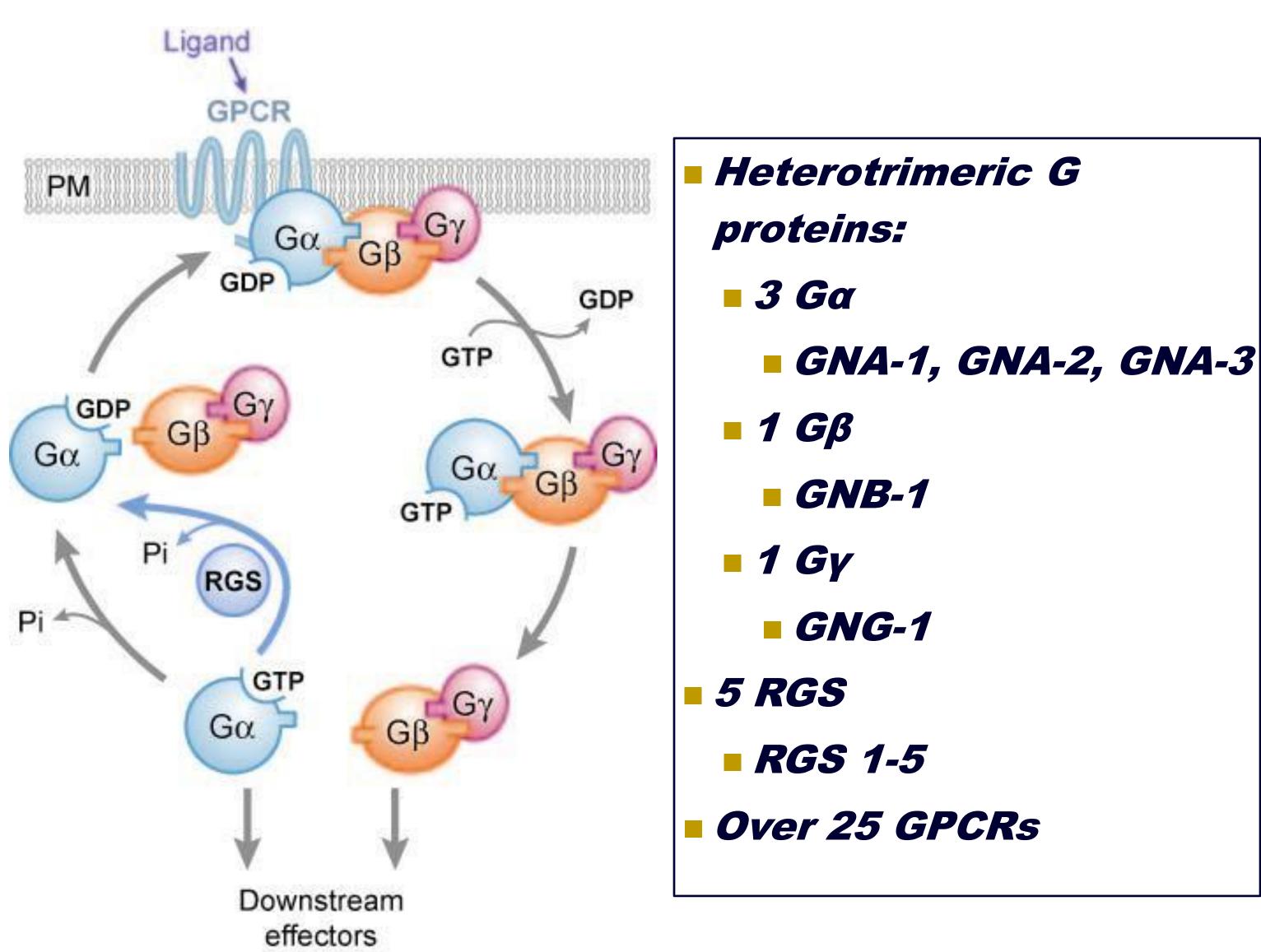
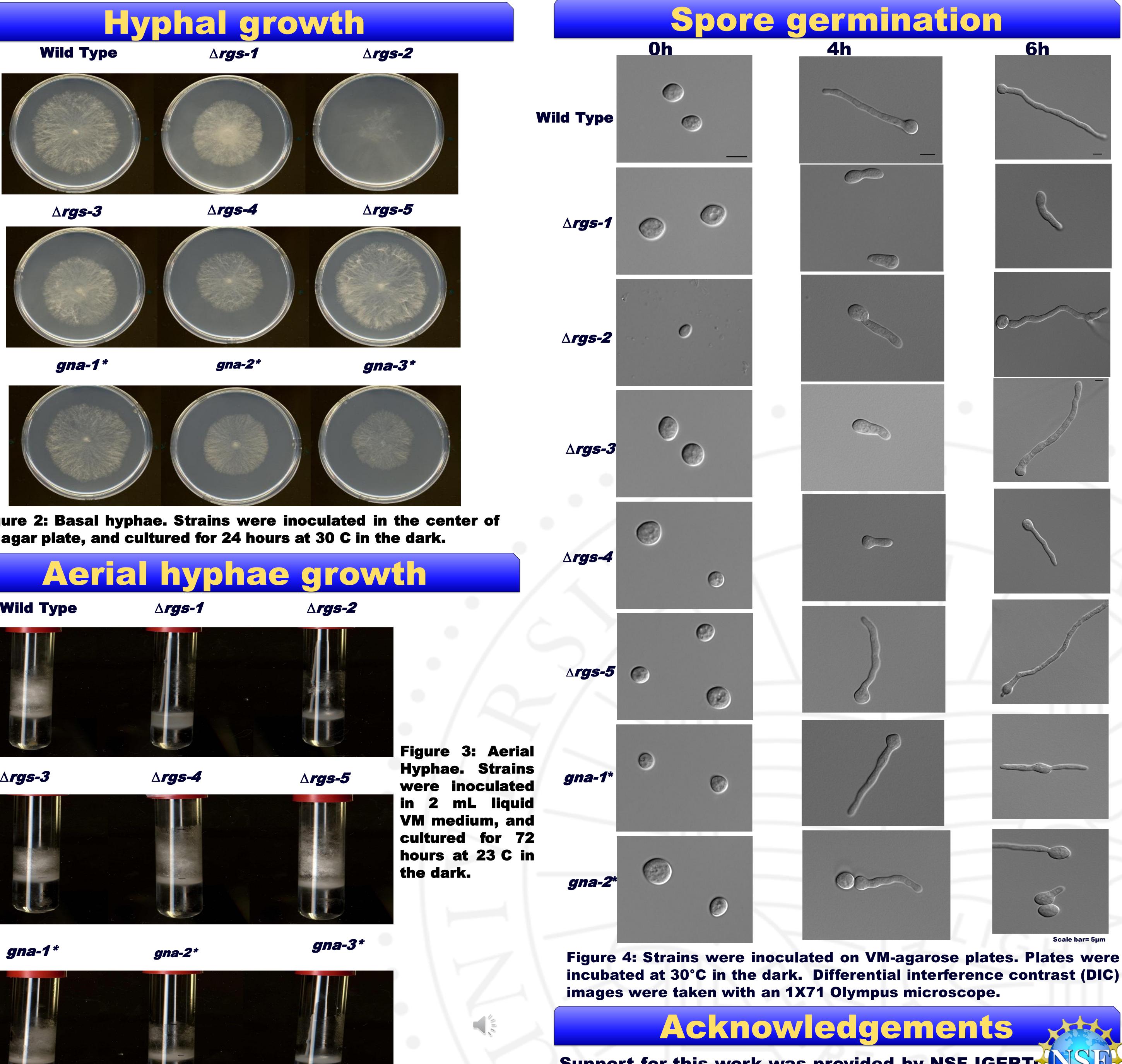


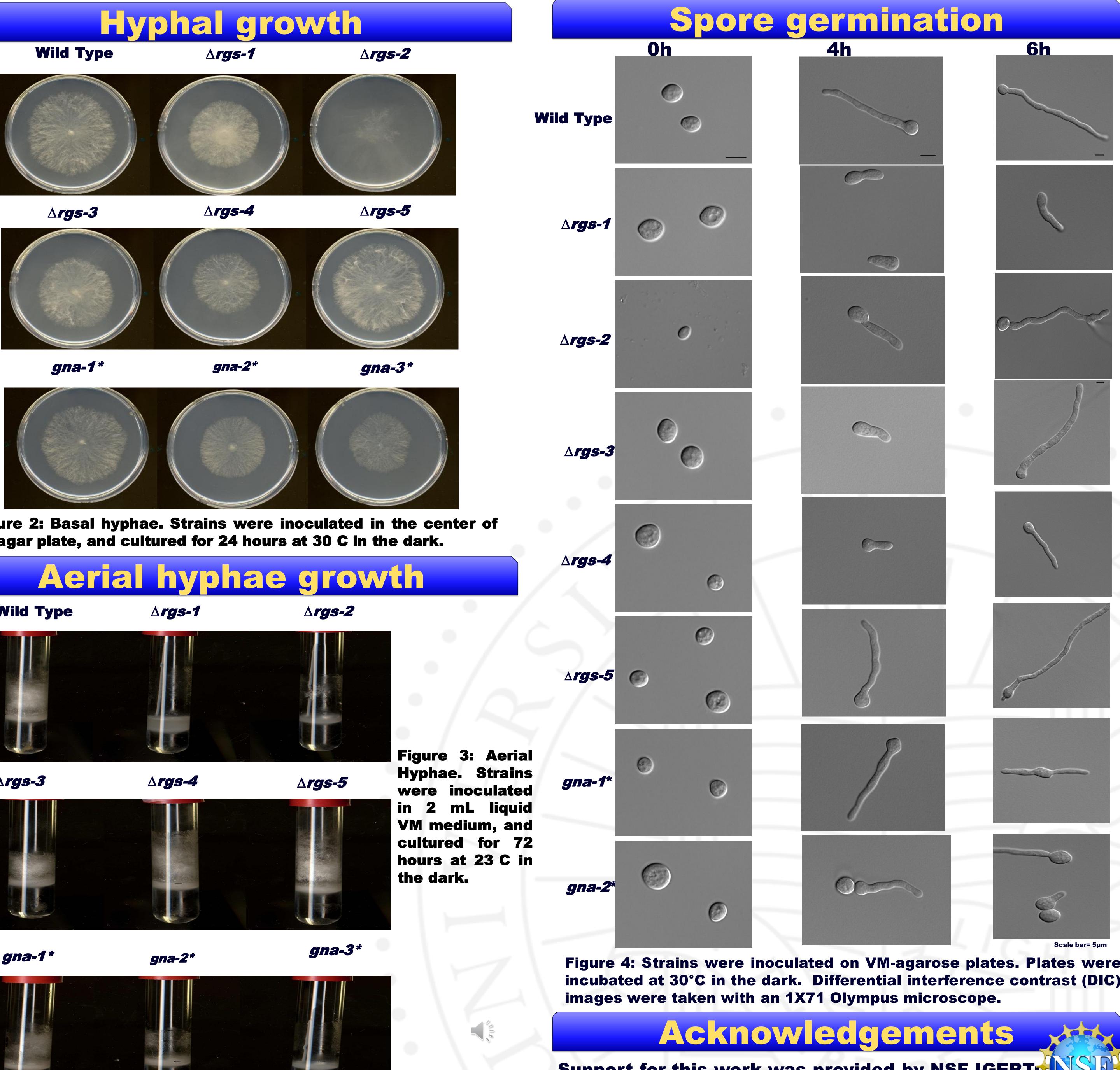
Figure 1:Canonical G protein signaling pathway mechanism in *N. crassa*

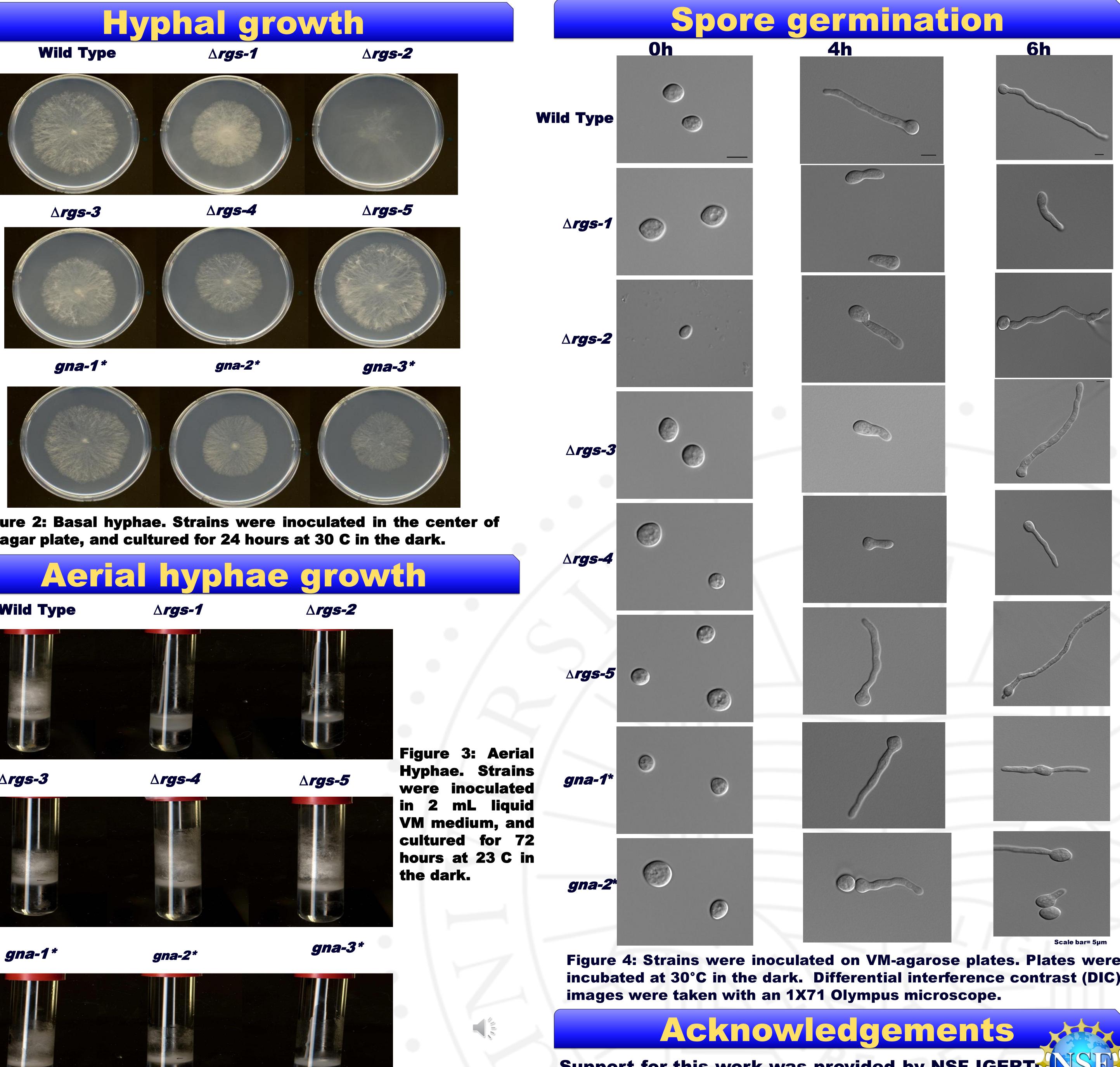
Polarized growth

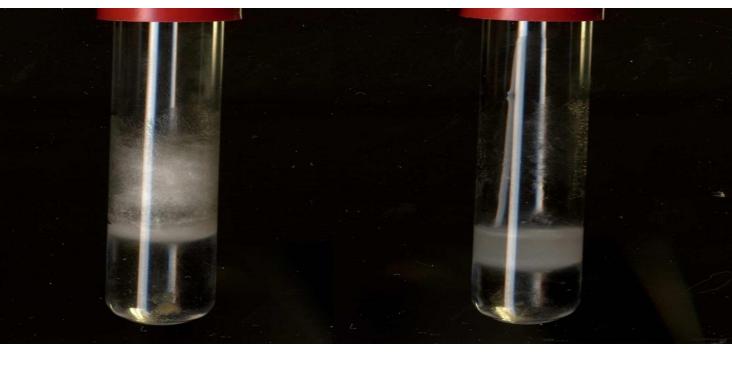
Neurospora crassa grows via three ways; polar extension, branching, and hyphal fusion. All three major mechanisms involve the maintenance of polarity. Analysis of polarized growth of *rgs* mutants is the focus of this study.

Putting the BRAKES on G Protein Signaling Influences Growth and Development in Neurospora Ilva Cabrera and Katherine Borkovich Department of Plant Pathology and Microbiology, University of California Riverside icabr001@ucr.edu, katherine.borkovich@ucr.edu Hyphal growth Oh Wild Type ∆*rgs-2* ∆*rgs-1*

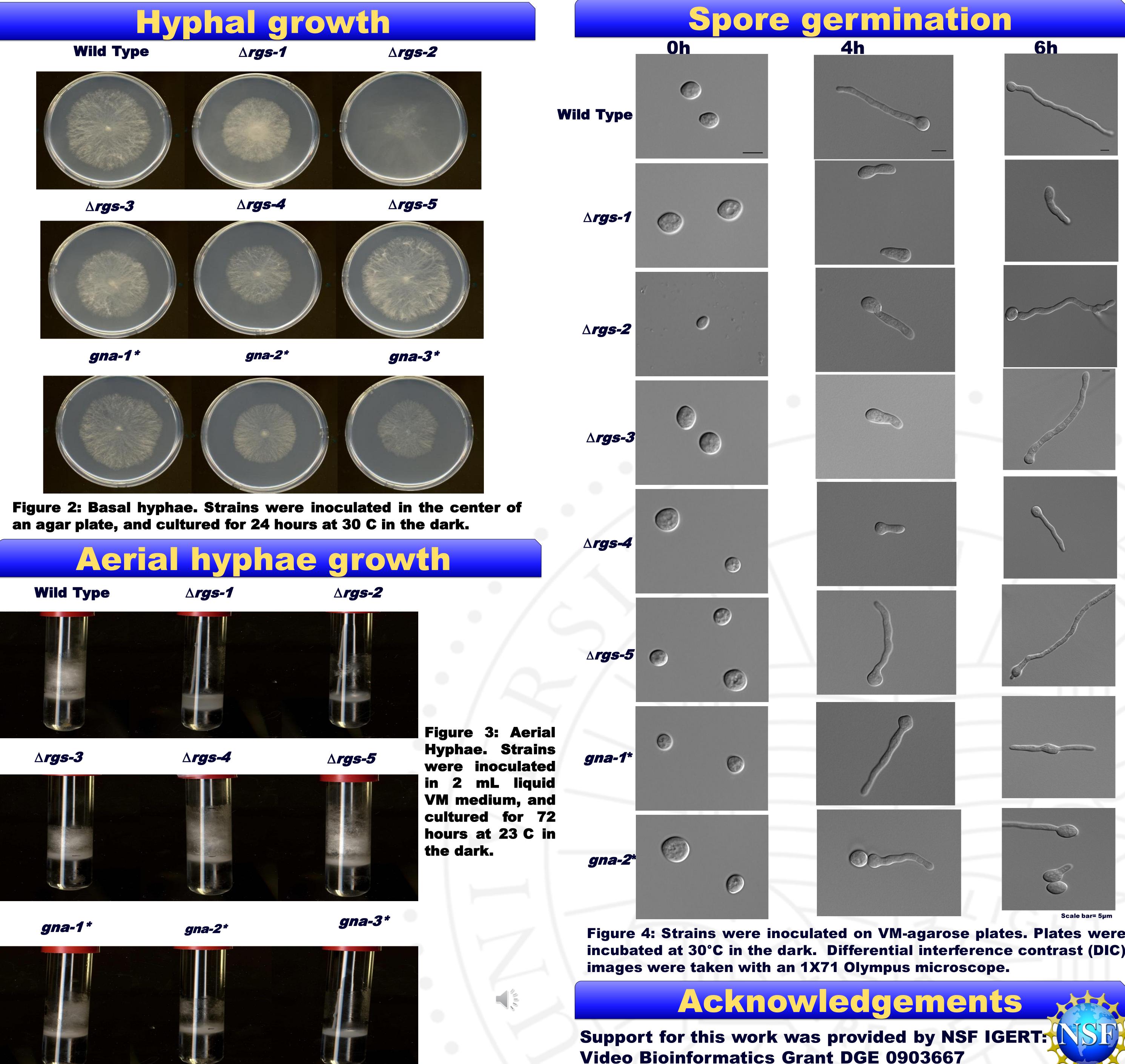












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